



中国认可
国际互认
检测
TESTING
CNAS L4595

TEST REPORT

Report No.: LCS210419072AR

Date: 2021.05.24

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Applicant : Zhejiang Flashforge 3D Technology Co., Ltd.

Address : 2/F, No. 518 Xianyuan Road, Jinhua, China

Report on the submitted samples said to be:

Sample Name : 3D Printer

Trade Mark :  **FLASHFORGE
3D PRINTER**

Style No. : Adventurer 4

Testing Period : April 21, 2021 ~ May 24, 2021

Results : Please refer to next page(s).

TEST REQUEST	CONCLUSION
According to the customer's request, based on the performed tests on submitted sample, the result of Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, Dibutyl Phthalate(DBP), Benzylbutyl Phthalate(BBP), Bis(2-ethylhexyl) Phthalate(DEHP), Diisobutyl phthalate(DIBP) content comply with the limit requirement as set of RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.	Pass

Signed for and on behalf of LCS



Daniel Li



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Results:

A.EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ^{VI}		
						PBBs	PBDEs	
1	Black coated metal	BL	BL	BL	X	/	/	2021-04-21
2	Black plastic sheet	BL	BL	BL	BL	X	X	2021-04-21
3	Transparent plastic shell	BL	BL	BL	BL	BL	BL	2021-04-21
4	Silver magnet	BL	BL	BL	X	/	/	2021-04-21
5	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
6	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
7	Brown capacitor	BL	BL	BL	BL	BL	BL	2021-04-21
8	Dark gray capacitor	BL	BL	BL	BL	BL	BL	2021-04-21
9	Silver sheet metal	BL	BL	BL	X	/	/	2021-04-21
10	Silver metal post	BL	BL	BL	BL	/	/	2021-04-21
11	Black plastic paste	BL	BL	BL	BL	BL	BL	2021-04-21
12	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
13	Silver magnet	OL	BL	BL	X	/	/	2021-04-21
14	Black metal sheet	OL	BL	BL	BL	/	/	2021-04-21
15	Grey sheet metal	BL	OL	BL	X	/	/	2021-04-21
16	Silver sheet metal	BL	OL	BL	BL	/	/	2021-04-21
17	Golden metal nut	BL	OL	BL	BL	/	/	2021-04-21
18	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
19	Golden metal nut	BL	OL	BL	BL	/	/	2021-04-21
20	Blue plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
21	Silver metal frame	X	BL	BL	BL	/	/	2021-04-21
22	White line	BL	BL	BL	BL	X	X	2021-04-21
23	Black paper	BL	BL	BL	BL	BL	BL	2021-04-21
24	White paper	BL	BL	BL	BL	BL	BL	2021-04-21
25	Black foam	BL	BL	BL	BL	BL	BL	2021-04-21



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ⁺		
						PBBs	PBDEs	
26	Golden metal nut	X	BL	BL	BL	/	/	2021-04-21
27	Silver metal spring	OL	BL	BL	BL	/	/	2021-04-21
28	Gold metal ring	BL	BL	BL	BL	/	/	2021-04-21
29	Silver metal post	BL	BL	BL	X	/	/	2021-04-21
30	Silver sheet metal	OL	BL	BL	X	/	/	2021-04-21
31	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
32	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
33	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
34	Black plastic ring	BL	BL	BL	BL	BL	BL	2021-04-21
35	Grey plastic cover	BL	BL	BL	BL	BL	BL	2021-04-21
36	Black soft plastic	BL	BL	BL	BL	BL	BL	2021-04-21
37	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
38	White plastic pipe	BL	BL	BL	BL	BL	BL	2021-04-21
39	Golden metal nut	OL	OL	BL	BL	/	/	2021-04-21
40	Blue plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
41	Silver sheet metal	BL	BL	BL	X	/	/	2021-04-21
42	Black metal screw	BL	BL	BL	X	/	/	2021-04-21
43	Black metal ring	BL	BL	BL	BL	/	/	2021-04-21
44	Silver magnet	OL	OL	BL	X	/	/	2021-04-21
45	White rubber ring	BL	BL	BL	BL	BL	BL	2021-04-21
46	Silver sheet metal	BL	BL	BL	X	/	/	2021-04-21
47	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
48	Silver sheet metal	BL	X	BL	BL	/	/	2021-04-21
49	Transparent glass sheet	BL	BL	BL	BL	BL	BL	2021-04-21
50	Yellow label	BL	BL	BL	BL	BL	BL	2021-04-21



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ^{VI}		
						PBBs	PBDEs	
51	3M adhesive	BL	BL	BL	BL	BL	BL	2021-04-21
52	Silver metal label	BL	BL	BL	BL	/	/	2021-04-21
53	White label	BL	BL	BL	BL	BL	BL	2021-04-21
54	Silver metal label	BL	BL	BL	BL	/	/	2021-04-21
55	White bar code paste	BL	BL	BL	BL	BL	BL	2021-04-21
56	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
57	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
58	Black shrink fit pipe	BL	BL	BL	BL	BL	BL	2021-04-21
59	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
60	Green plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
61	Red plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
62	White plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
63	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
64	Silver wire	BL	BL	BL	BL	/	/	2021-04-21
65	White plastic sheet	BL	BL	BL	BL	X	X	2021-04-21
66	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
67	White shrink tube	BL	BL	BL	BL	BL	BL	2021-04-21
68	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
69	Silver plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
70	White plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
71	Green plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
72	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
73	Red plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
74	Red plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
75	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21



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		Cd	Pb	Hg	Cr ^{VI}	Br ⁺		
						PBBs	PBDEs	
76	White shrink tube	BL	BL	BL	BL	BL	BL	2021-04-21
77	Grey plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
78	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
79	Brown plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
80	Blue plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
81	Grey plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
82	Red wire	BL	OL	BL	BL	/	/	2021-04-21
83	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
84	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
85	Orange plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
86	Green plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
87	Silver wire	OL	OL	BL	X	/	/	2021-04-21
88	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
89	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
90	White shrink tube	BL	BL	BL	BL	BL	BL	2021-04-21
91	Grey plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
92	Silver plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
93	Red plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
94	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
95	Green plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
96	Silver wire	OL	OL	BL	X	/	/	2021-04-21
97	Transparent plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
98	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
99	Black shrink fit pipe	BL	BL	BL	BL	BL	BL	2021-04-21
100	Red plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ^{VI}		
						PBBs	PBDEs	
101	Blue plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
102	Silver wire	BL	OL	BL	X	/	/	2021-04-21
103	Red plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
104	Transparent plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
105	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
106	Red plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
107	Silver wire	BL	BL	BL	BL	/	/	2021-04-21
108	Transparent plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
109	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
110	Blue plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
111	Silver wire	BL	BL	BL	BL	/	/	2021-04-21
112	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
113	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
114	White plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
115	Silver wire	BL	BL	BL	BL	/	/	2021-04-21
116	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
117	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
118	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
119	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
120	Silver sheet metal	OL	OL	BL	X	/	/	2021-04-21
121	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
122	Brown tape	BL	BL	BL	BL	BL	BL	2021-04-21
123	Beige plastic pipe	BL	BL	BL	BL	BL	BL	2021-04-21
124	Silver metal	X	BL	BL	X	/	/	2021-04-21
125	Yellow tape	BL	BL	BL	BL	BL	BL	2021-04-21



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ^{VI}		
						PBBs	PBDEs	
126	White plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
127	Silver wire	BL	BL	BL	X	/	/	2021-04-21
128	Black plastic shell	BL	BL	BL	BL	X	X	2021-04-21
129	Silver label	BL	BL	BL	BL	BL	BL	2021-04-21
130	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
131	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
132	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
133	Red plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
134	Silver wire	BL	OL	BL	BL	/	/	2021-04-21
135	Silver sheet metal	OL	BL	BL	BL	/	/	2021-04-21
136	black magnet	OL	OL	BL	X	/	/	2021-04-21
137	Brown capacitor	BL	BL	BL	BL	BL	BL	2021-04-21
138	Black IC	BL	BL	BL	BL	BL	BL	2021-04-21
139	chip resistor	BL	BL	BL	BL	BL	BL	2021-04-21
140	tin solder	BL	BL	BL	BL	/	/	2021-04-21
141	Silver sheet metal	BL	BL	BL	X	/	/	2021-04-21
142	Red wire	BL	BL	BL	BL	/	/	2021-04-21
143	Black plastic sheet	BL	BL	BL	BL	X	X	2021-04-21
144	Silver label	BL	BL	BL	BL	BL	BL	2021-04-21
145	Silver sheet metal	OL	BL	BL	BL	/	/	2021-04-21
146	black magnet	BL	BL	BL	BL	/	/	2021-04-21
147	Red wire	BL	BL	BL	BL	/	/	2021-04-21
148	Silver sheet metal	BL	OL	BL	BL	/	/	2021-04-21
149	Black IC	BL	BL	BL	BL	BL	BL	2021-04-21
150	tin solder	BL	BL	BL	BL	/	/	2021-04-21



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ⁺		
						PBBs	PBDEs	
151	Brown capacitor	BL	BL	BL	BL	BL	BL	2021-04-21
152	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
153	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
154	Silver metal needle	BL	OL	BL	BL	/	/	2021-04-21
155	PCB board	BL	BL	BL	BL	X	X	2021-04-21
156	Gold sheet metal	BL	BL	BL	BL	/	/	2021-04-21
157	Grey plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
158	Silver wire	BL	X	BL	BL	/	/	2021-04-21
159	PCB board	BL	BL	BL	BL	X	X	2021-04-21
160	tin solder	BL	OL	BL	BL	/	/	2021-04-21
161	chip resistor	BL	BL	BL	BL	BL	BL	2021-04-21
162	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
163	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
164	Silver sheet metal	BL	BL	BL	X	/	/	2021-04-21
165	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
166	Silver metal shrapnel	BL	BL	BL	BL	/	/	2021-04-21
167	Black IC	BL	BL	BL	BL	BL	BL	2021-04-21
168	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
169	White glass	BL	BL	BL	BL	BL	BL	2021-04-21
170	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
171	tin solder	BL	BL	BL	BL	/	/	2021-04-21
172	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
173	Silver metal needle	OL	X	BL	X	/	/	2021-04-21
174	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
175	Brown capacitor	BL	BL	BL	BL	BL	BL	2021-04-21



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ⁺		
						PBBs	PBDEs	
176	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
177	Black plastic sheet	BL	BL	BL	BL	X	X	2021-04-21
178	Gold metal needle	BL	BL	BL	BL	/	/	2021-04-21
179	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
180	Transparent plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
181	Transparent glass sheet	BL	BL	BL	BL	BL	BL	2021-04-21
182	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
183	White plastic frame	BL	BL	BL	BL	BL	BL	2021-04-21
184	Black glass	BL	BL	BL	BL	BL	BL	2021-04-21
185	Yellow line	BL	BL	BL	BL	BL	BL	2021-04-21
186	Lamp beads	BL	BL	BL	BL	X	X	2021-04-21
187	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
188	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
189	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
190	Black IC	BL	BL	BL	BL	BL	BL	2021-04-21
191	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
192	Green diode	BL	BL	BL	BL	BL	BL	2021-04-21
193	Black plastic sheet	BL	BL	BL	BL	X	X	2021-04-21
194	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
195	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
196	Black plastic sheet	BL	BL	BL	BL	X	X	2021-04-21
197	Silver metal needle	OL	BL	BL	BL	/	/	2021-04-21
198	Red wire	BL	BL	BL	BL	/	/	2021-04-21
199	Black ceramic ring	BL	BL	BL	BL	BL	BL	2021-04-21
200	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ⁺		
						PBBs	PBDEs	
201	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
202	Black plastic ring	BL	BL	BL	BL	BL	BL	2021-04-21
203	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
204	Yellow wet paper	BL	BL	BL	BL	BL	BL	2021-04-21
205	Grey sheet metal	BL	BL	BL	BL	/	/	2021-04-21
206	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
207	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
208	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
209	Grey ceramics	BL	BL	BL	BL	BL	BL	2021-04-21
210	Yellow capacitance	BL	BL	BL	BL	BL	BL	2021-04-21
211	Black plastic sheet	BL	BL	BL	BL	X	X	2021-04-21
212	Black ceramic ring	BL	BL	BL	BL	BL	BL	2021-04-21
213	Silver sheet metal	BL	BL	BL	BL	/	/	2021-04-21
214	Silver Crystal	BL	BL	BL	BL	/	/	2021-04-21
215	tin solder	BL	X	BL	BL	/	/	2021-04-21
216	PCB board	BL	BL	BL	BL	BL	BL	2021-04-21
217	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
218	Red plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
219	Black IC	BL	BL	BL	BL	BL	BL	2021-04-21
220	PCB board	BL	BL	BL	BL	BL	BL	2021-04-21
221	Yellow plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
222	Silver metal needle	BL	BL	BL	BL	/	/	2021-04-21
223	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
224	Red plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
225	Blue plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ⁺		
						PBBs	PBDEs	
226	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-04-21
227	Green plastic wire skin	BL	BL	BL	BL	BL	BL	2021-04-21
228	Silver wire	BL	BL	BL	BL	/	/	2021-04-21
229	Silver metal post	OL	BL	BL	BL	/	/	2021-04-21
230	Silver sheet metal	OL	BL	BL	BL	/	/	2021-04-21
231	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-04-21
232	Silver sheet metal	OL	X	BL	X	/	/	2021-04-21
233	Silver metal post	OL	BL	BL	BL	/	/	2021-04-21
234	Black metal sheet	BL	OL	BL	BL	/	/	2021-04-21
235	Silver metal post	OL	OL	BL	X	/	/	2021-04-21
236	Brown tape	BL	BL	BL	BL	BL	BL	2021-05-06
237	Transparent plastic ring	BL	BL	BL	BL	BL	BL	2021-05-06
238	Silver sheet metal	BL	BL	BL	X	/	/	2021-05-06
239	White plastic ring	BL	BL	BL	BL	BL	BL	2021-05-06
240	Yellow tape	BL	BL	BL	BL	BL	BL	2021-05-06
241	Grey paint	BL	BL	BL	BL	BL	BL	2021-05-06
242	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-05-06
243	Silver metal needle	BL	BL	BL	BL	/	/	2021-05-06
244	Purple plastic thread skin	BL	BL	BL	BL	BL	BL	2021-05-06
245	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-05-06
246	Silver wire	OL	BL	BL	BL	/	/	2021-05-06
247	Black plastic sheet	BL	BL	BL	BL	X	X	2021-05-06
248	White label	BL	BL	BL	BL	BL	BL	2021-05-06
249	Silver sheet metal	BL	X	BL	BL	/	/	2021-05-06
250	black magnet	BL	OL	BL	BL	/	/	2021-05-06



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ^Y		
						PBBs	PBDEs	
251	Red wire	BL	X	BL	BL	/	/	2021-05-06
252	Silver metal needle	BL	X	BL	X	/	/	2021-05-06
253	White plastic sheet	BL	BL	BL	BL	X	X	2021-05-06
254	chip resistor	BL	BL	BL	BL	BL	BL	2021-05-06
255	PCB board	BL	BL	BL	BL	BL	BL	2021-05-06
256	Black IC	BL	BL	BL	BL	BL	BL	2021-05-06

Note:

- (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

Note:

BL = Below Limit
OL = Over Limit
X = Inconclusive

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2015/863/EC amending RoHS directive 2011/65/EU:
- (4) ▼=For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr(VI), and the results showed the total Cr content



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RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000
Dibutyl Phthalate(DBP)	1000
Benzylbutyl Phthalate(BBP)	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	1000
Diisobutyl phthalate(DIBP)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.



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B. EU RoHS Directive 2011/65/EU and its amendment Directives 2015/863/EU on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content.

Test method:

Lead(Pb) & Cadmium(Cd) Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Mercury(Hg) Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Hexavalent Chromium(Cr(VI)) Content:

With reference to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

BBP DBP DEHP & DIBP Content:

With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of Lead (Pb) and Cadmium (Cd)

Item	Unit	MDL	Results				Limit
			(15)	(16)	(17)	(19)	
Lead Content (Pb)	mg/kg	5	N.D.	N.D.	24218 ^{#3}	27387 ^{#3}	1000

Item	Unit	MDL	Results				Limit
			(39)	(44)	(48)	(82)	
Lead Content (Pb)	mg/kg	5	25339 ^{#3}	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results			Limit
			(87)	(134)	(102)	
Lead Content (Pb)	mg/kg	5	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results				Limit
			(120)	(136)	(148)	(154)	
Lead Content (Pb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	1000



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Item	Unit	MDL	Results				Limit
			(158)	(160)	(173)	(215)	
Lead Content (Pb)	mg/kg	5	N.D.	N.D.	N.D.	215	1000

Item	Unit	MDL	Results				Limit
			(232)	(234)	(235)	(96)	
Lead Content (Pb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results					Limit
			(246)	(249)	(250)	(251)	(252)	
Lead Content (Pb)	mg/kg	5	N.D.	8	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results				Limit
			(13)	(14)	(21)	(26)	
Cadmium Content (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	100

Item	Unit	MDL	Results				Limit
			(27)	(30)	(30)	(39)	
Cadmium Content (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	100

Item	Unit	MDL	Results				Limit
			(87)	(124)	(135)	(120)	
Cadmium Content (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	100

Item	Unit	MDL	Results				Limit
			(136)	(145)	(173)	(193)	
Cadmium Content (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	100

Item	Unit	MDL	Results				Limit
			(229)	(230)	(232)	(233)	
Cadmium Content (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	100



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Item	Unit	MDL	Results			Limit
			(235)	(96)	(246)	
Cadmium Content (Cd)	mg/kg	5	N.D.	N.D.	N.D.	100

2) The test results of Hexavalent Chromium (Cr(VI))(metal)

Item	Unit	MDL	Results				Limit
			(1)	(4)	(9)	(13)	
Hexavalent Chromium(Cr(VI)) ▼	ug/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	-

Item	Unit	MDL	Results				Limit
			(15)	(29)	(30)	(41)	
Hexavalent Chromium(Cr(VI)) ▼	ug/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	-

Item	Unit	MDL	Results				Limit
			(42)	(44)	(46)	(87)	
Hexavalent Chromium(Cr(VI)) ▼	ug/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	-

Item	Unit	MDL	Results				Limit
			(96)	(102)	(124)	(127)	
Hexavalent Chromium(Cr(VI)) ▼	ug/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	-

Item	Unit	MDL	Results				Limit
			(136)	(141)	(164)	(173)	
Hexavalent Chromium(Cr(VI)) ▼	ug/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	-

Item	Unit	MDL	Results				Limit
			(232)	(235)	(238)	(252)	
Hexavalent Chromium(Cr(VI)) ▼	ug/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	-



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Note:

- MDL = Method Detection Limit
 - /= Not apply
 - LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is $0.10 \mu\text{g}/\text{cm}^2$
 - ▼ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr(VI)
b. The sample is negative for Cr(VI) if Cr(VI) is N.D.(concentration less than $0.10 \mu\text{g}/\text{cm}^2$). The sample coating is considered a non- Cr(VI) based coating
c. The result between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ is considered to be inconclusive, unavoidable coating variations may influence the determination
 - Information on storage conditions and production date of the tested samples is unavailable and thus Cr(VI) results represent status of the sample at the time of testing
 - $\text{mg}/\text{kg} = \text{ppm} = \text{parts per million}$
 - N.D.=Not Detected(<MDL or LOQ)
- #1 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.
- #2 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in electronic ceramic parts (e.g. piezoelectronic devices).
- #3 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.
- #4 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- #5 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Aluminum containing up to 0.4% (4000ppm) by weight.
- #6 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Cadmium and its compounds in electrical contact is exempted.
- #7 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its Amendments, Lead is exempted in steel for machining purposes and in galvanised steel containing up to 0.35% (3500ppm) by weight.
- Flow chart appendix is included.
 - Photo appendix is included.



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3) The test results of DBP、BBP、DEHP & DIBP

Item	Unit	MDL	Results	Limit
			68+69+70+71+72+73	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			74+76+77+78+79+80	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			81+83+85+86+88+90	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			91+92+93+94+95+97	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000



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Item	Unit	MDL	Results	Limit
			99+103+104+108+112+114	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			116+119+121+122+123+125	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			126+128+129+130+132+133	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			137+138+139+143+144+149	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000



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Item	Unit	MDL	Results	Limit
			151+153+155+157+159+161	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			162+163+165+167+168+169	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			170+172+174+175+176+177	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			180+181++182+183+184+185	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000



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Item	Unit	MDL	Results	Limit
			2+3+5+7+8+11	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			18+20+22+23+24+25	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			31+32+33+34+35+36	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			37+38+40+45+47+49	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000



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Item	Unit	MDL	Results	Limit
			50+51+53+55+56+58	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			60+61+62+63+65+67	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			186+187+188+190+192+193	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			196+199+200+202+204+207	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000



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Item	Unit	MDL	Results	Limit
			209+210+211+212+216+217	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			218+219+220+221+224+225	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			226+227+231	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			236+237+239+240+241+242	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000



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Item	Unit	MDL	Results	Limit
			244+245+247+248+253+254	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			255+256	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results				Limit
			59	100	101	106	
Dibutyl Phthalate(DBP)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results		Limit
			110	223	
Dibutyl Phthalate(DBP)	mg/kg	100	N.D.	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	100	N.D.	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	100	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	100	N.D.	N.D.	1000



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4) The test results of PBBs & PBDEs

Item	Unit	MDL	Results				Limit
			(2)	(22)	(65)	(128)	
Polybrominated Biphenyls (PBBs)							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000



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Item	Unit	MDL	Results				Limit
			(143)	(155)	(159)	(177)	
Polybrominated Biphenyls (PBBs)							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000



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Item	Unit	MDL	Results				Limit
			(186)	(193)	(196)	(211)	
Polybrominated Biphenyls (PBBs)							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000



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Item	Unit	MDL	Results		Limit
			(247)	(253)	
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000

Remark:

- mg/kg = ppm
- N.D. = Not detected
- MDL=Method detected limited
- Flow chart appendix is included
- Photo appendix is included.



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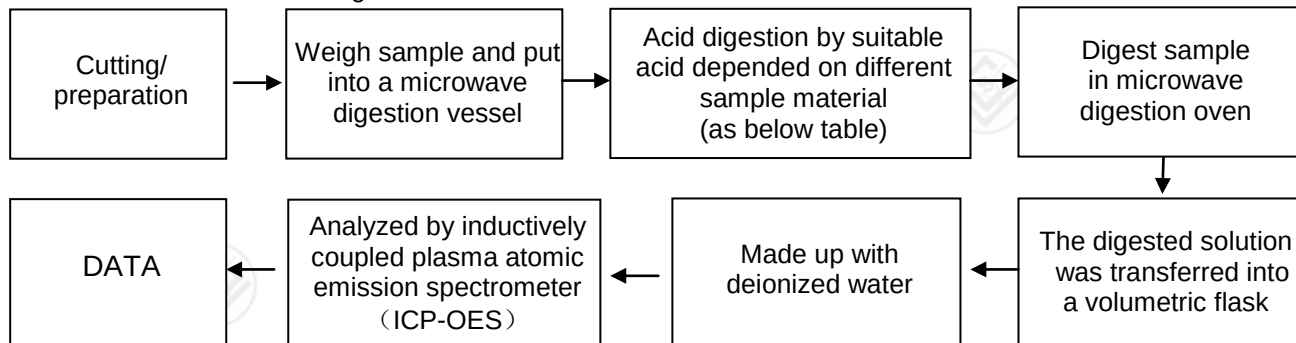
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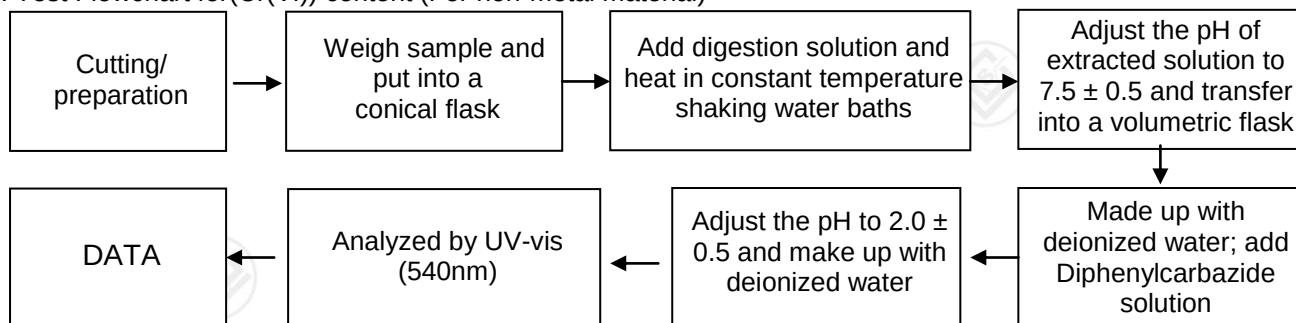
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Appendix

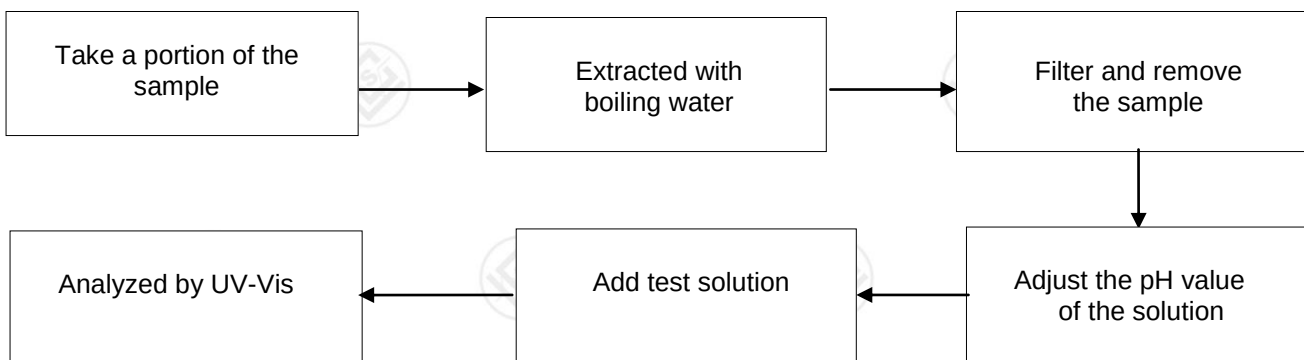
1. Test Flow chart for Cd/Pb /Hg content



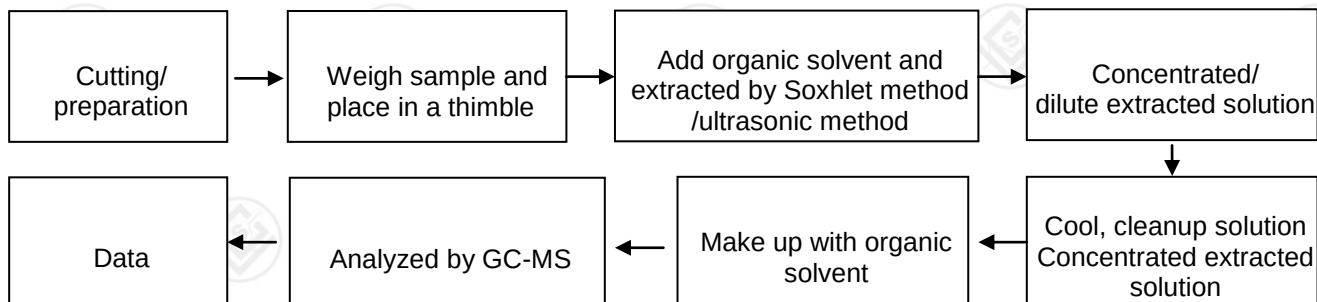
2. Test Flowchart for(Cr(VI)) content (For non-metal material)



Test Flowchart for (Cr(VI)) content (For metal material)



3. Test Flow chart for PBBs & PBDEs & DBP & BBP & DEHP & DIBP content





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The photo of the sample



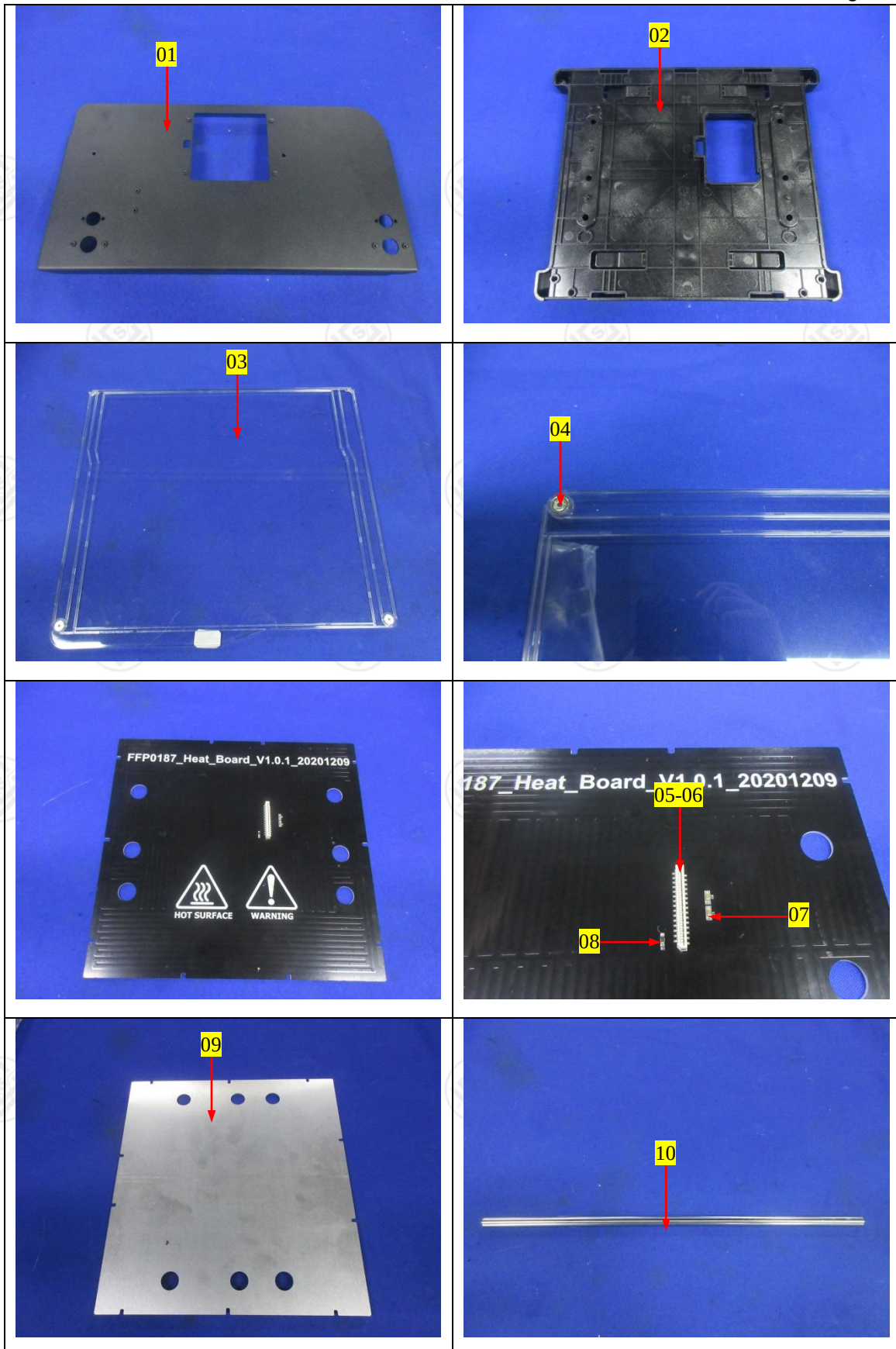


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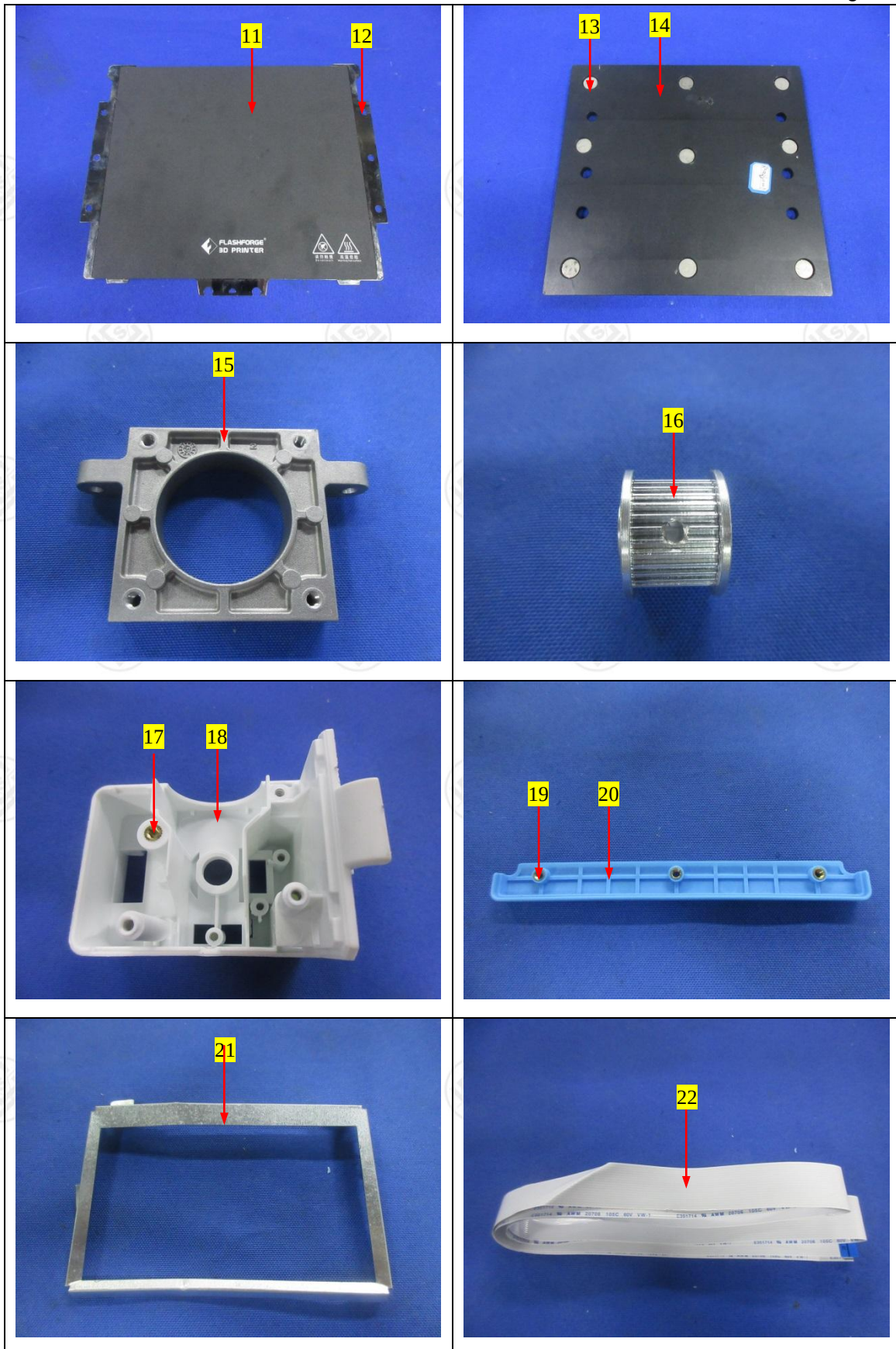


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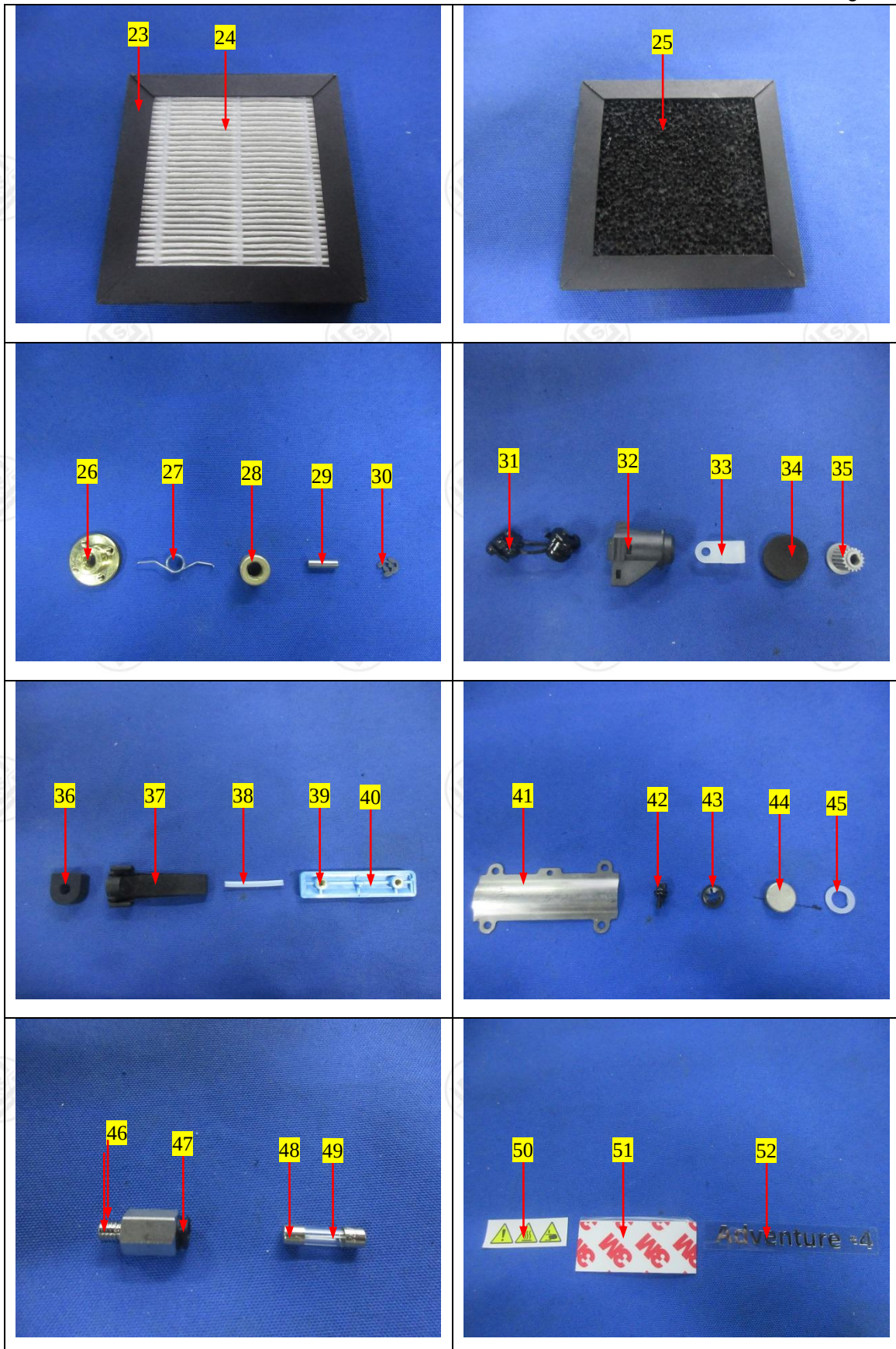


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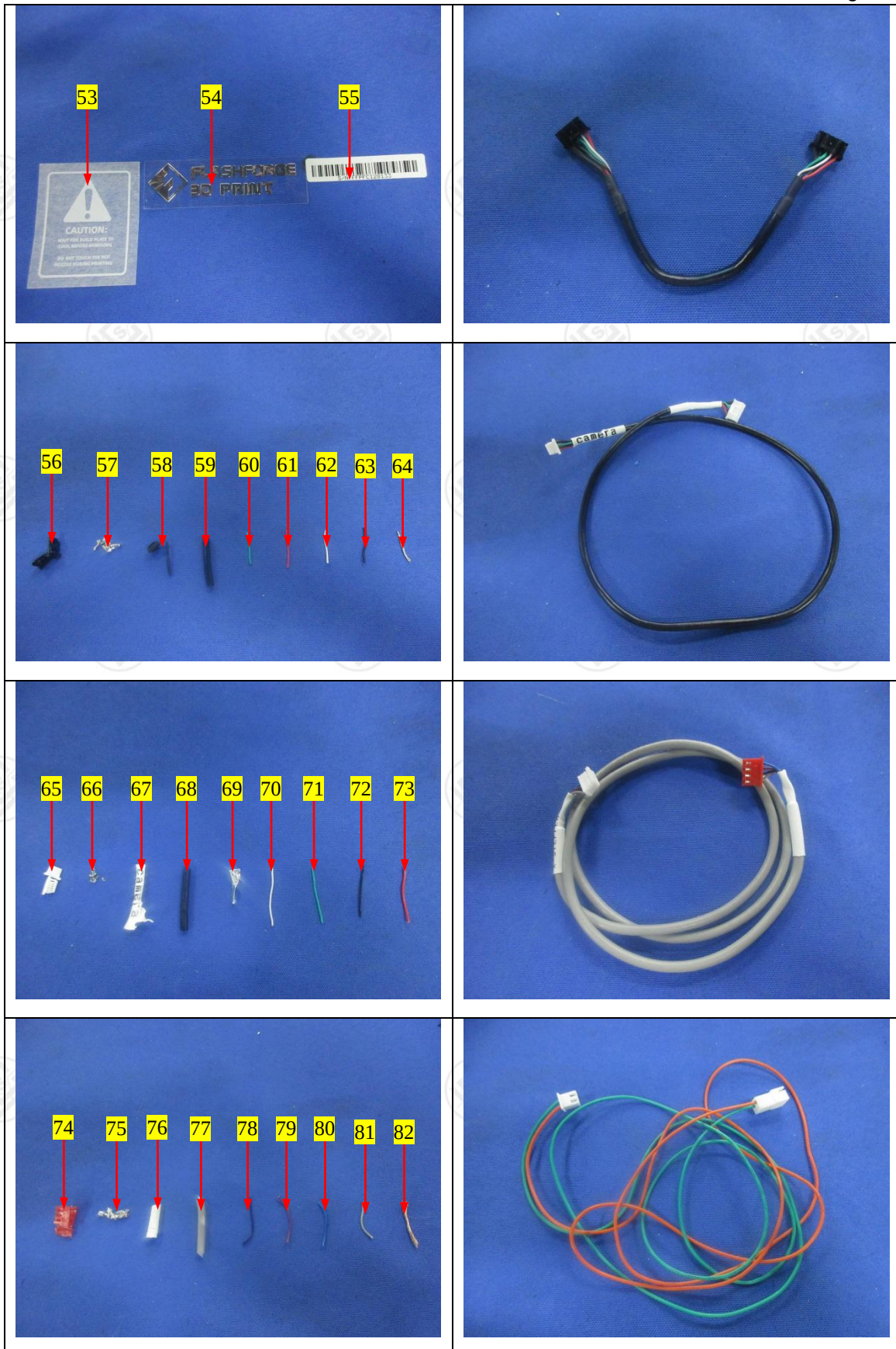


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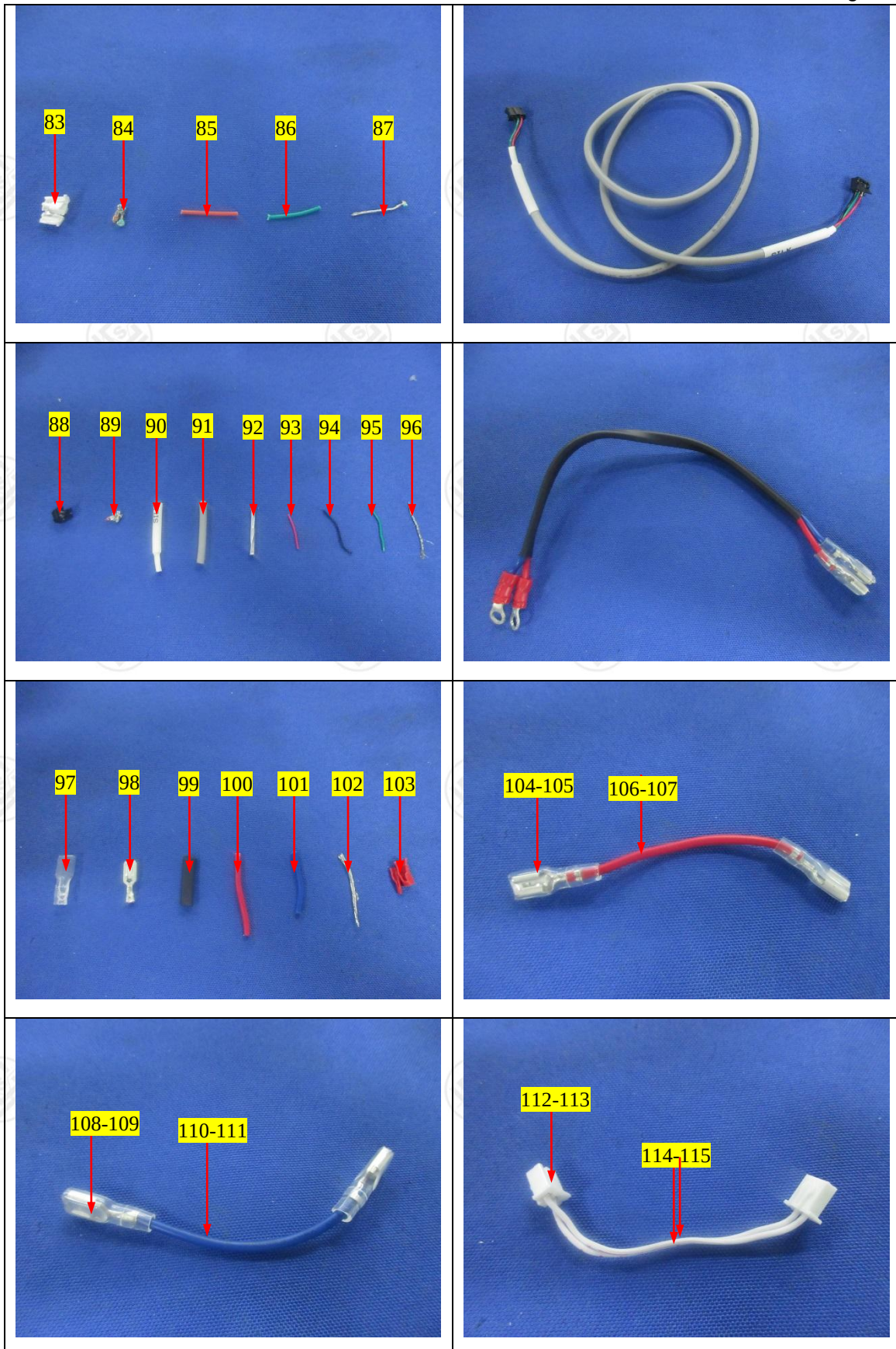


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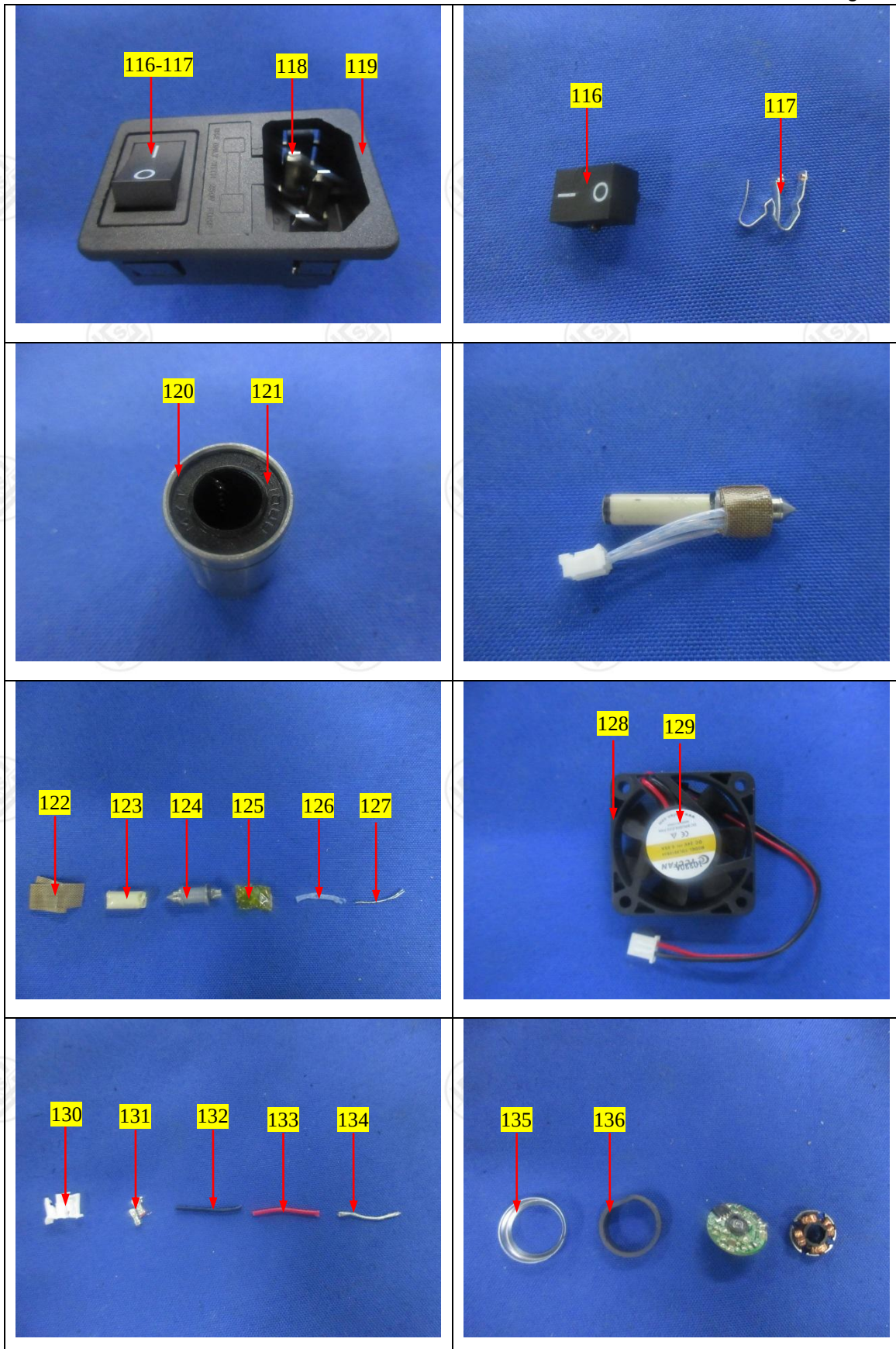


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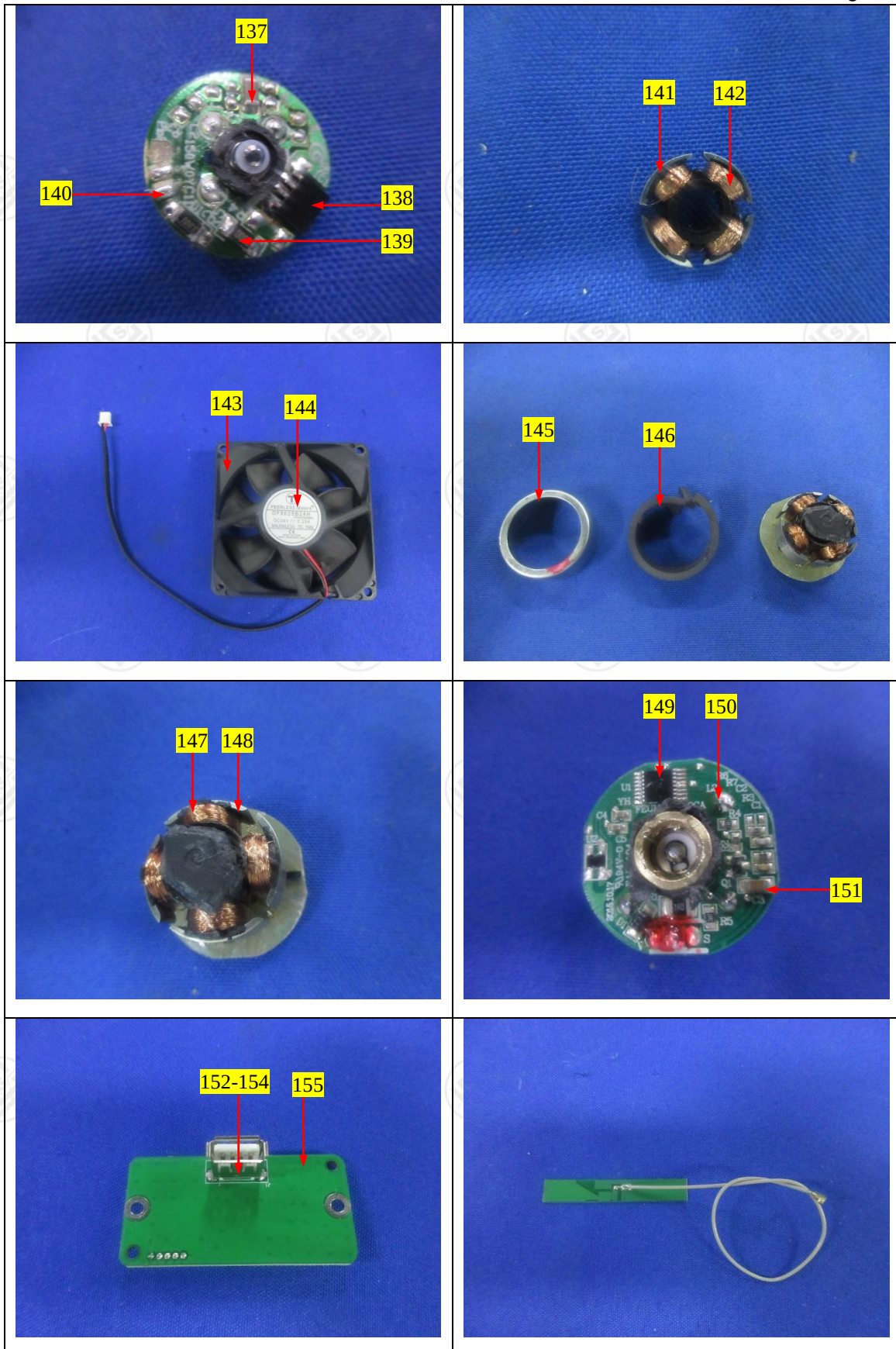


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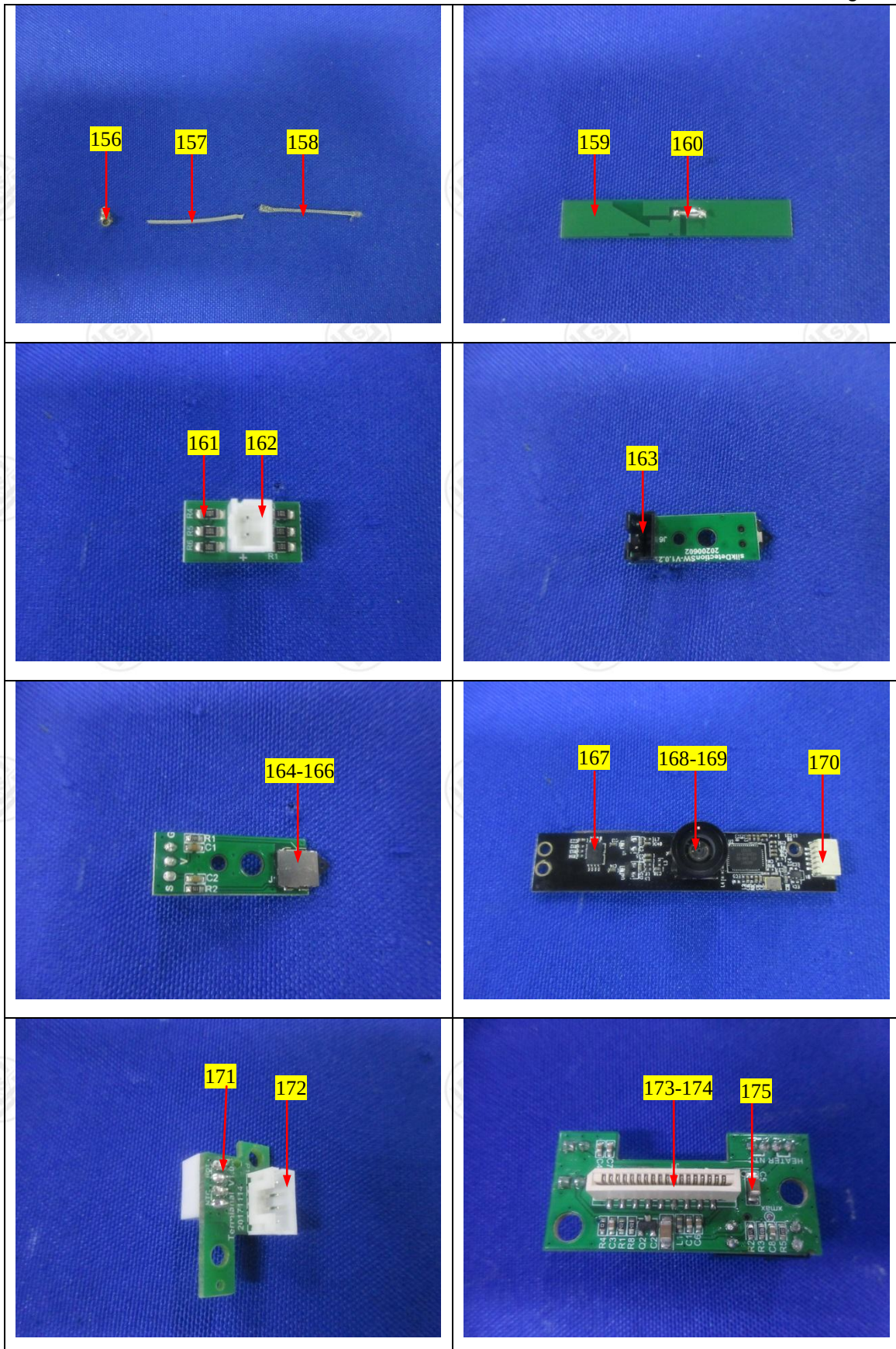


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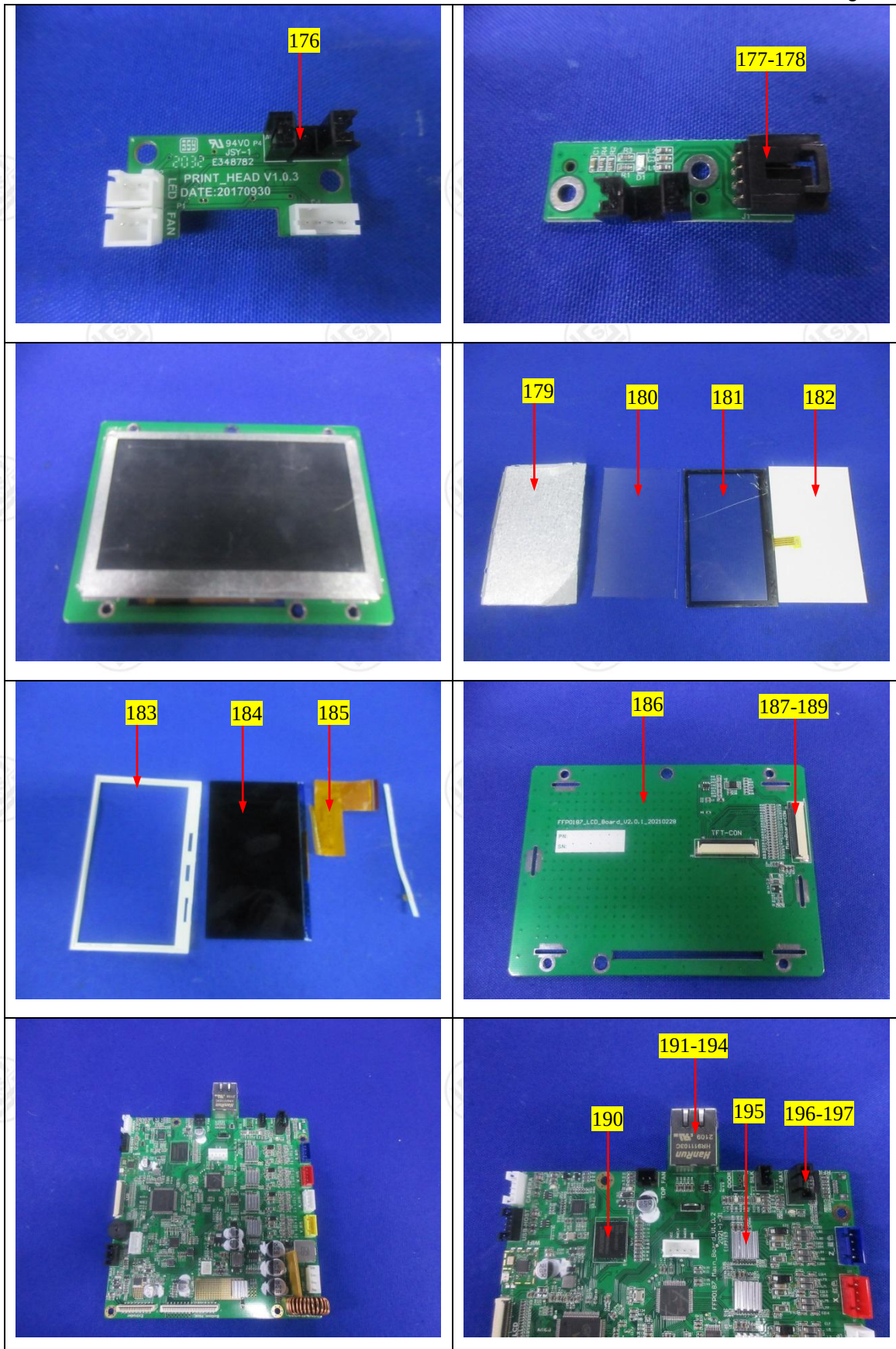


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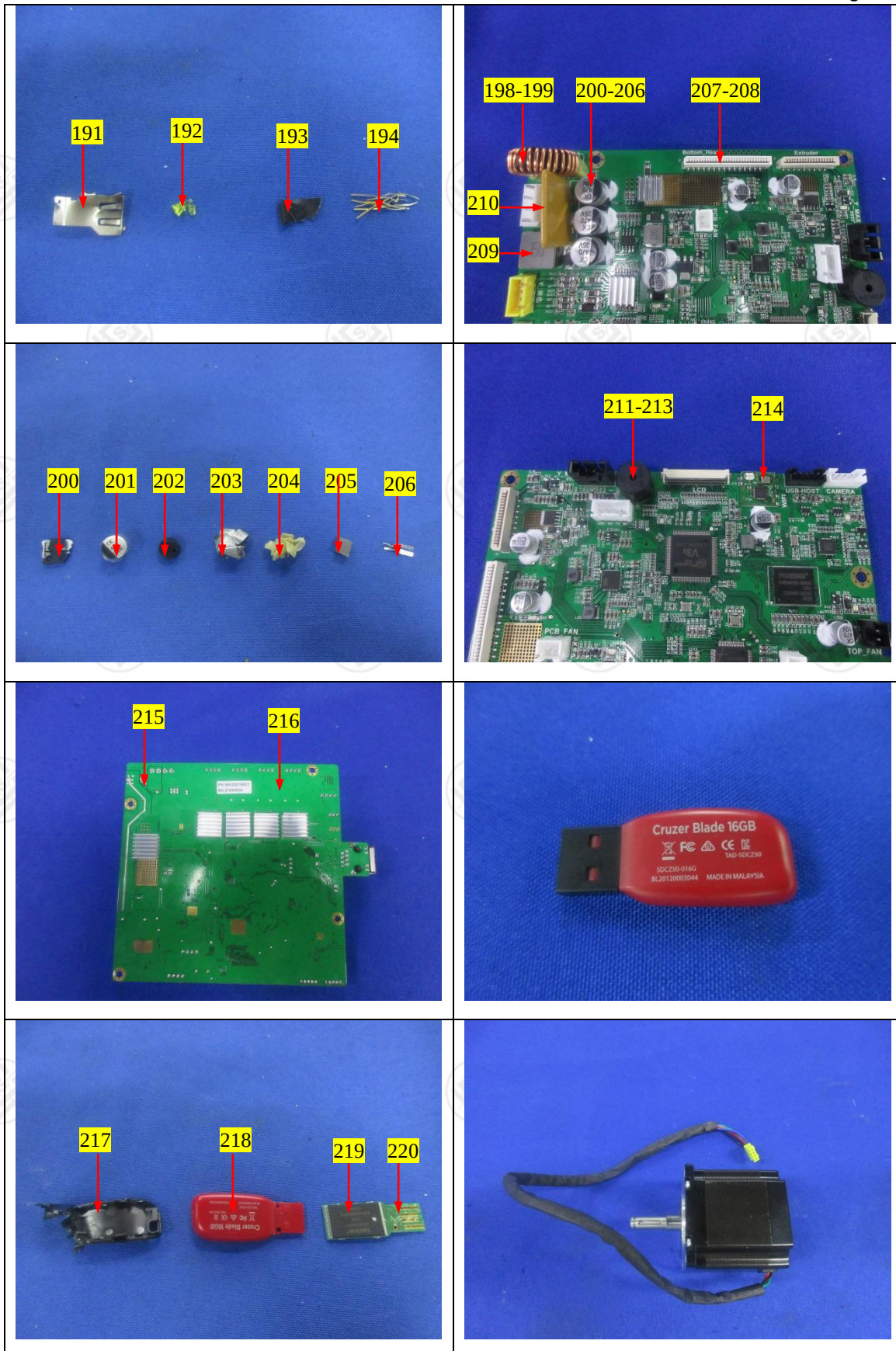


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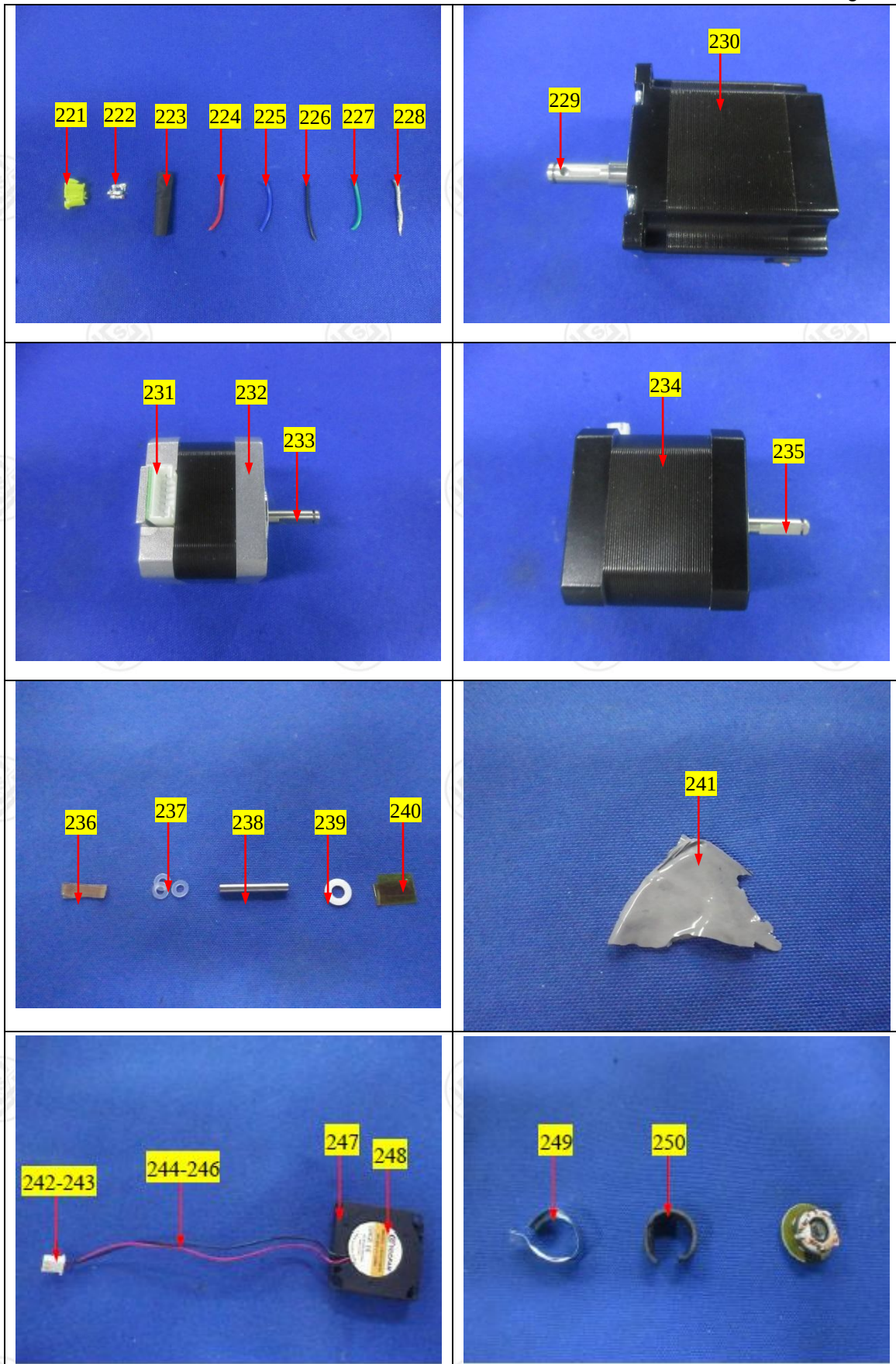


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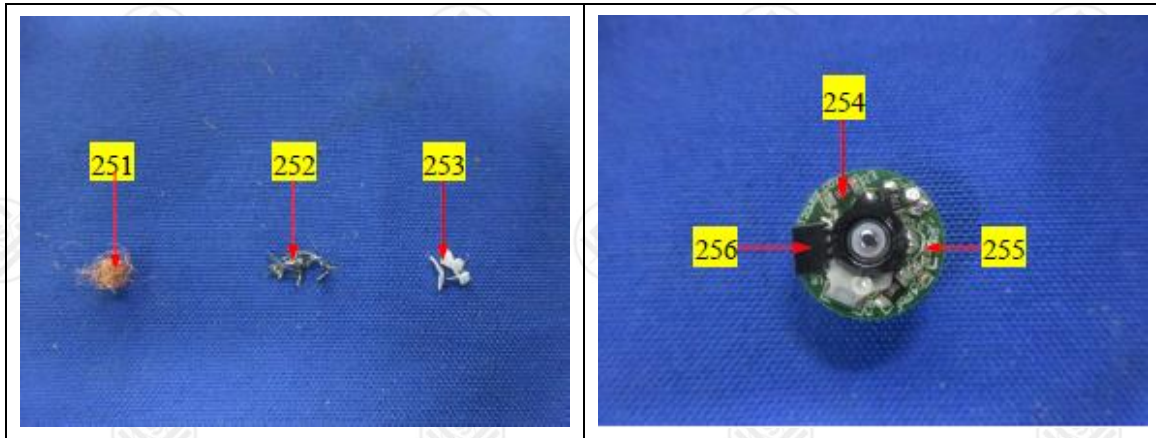


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***** End of Report *****

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2. The result(s) shown in this report refer only to the sample(s) tested.
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